

NTOCLOSE
Table of contents

NETWORK CLOSE FILE

F 11

15-SEP-1984 23:50:53 VAX/VMS Macro V04-00

Page 0

(2) 51
(3) 83
(6) 302
(7) 341

DECLARATIONS
NT\$CLOSE - PERFORM NETWORK CLOSE FUNCTION
CHECK_CRC_ERROR
REEXAMINE_FOP

NT
PS
PS
--
NF
SA
PH
--
In
CC
Pa
Sy
Pa
Sy
Ps
Cr
As
Th
47
Th
40
24
Ma
--
-3
TC
10
TH
MA

```

0000 1          $BEGIN  NTOCLOSE,000,NF$NETWORK,<NETWORK CLOSE FILE>
0000 2
0000 3
0000 4 :*****
0000 5 :*
0000 6 :*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0000 7 :*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0000 8 :*  ALL RIGHTS RESERVED.
0000 9 :*
0000 10 :*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0000 11 :*  ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0000 12 :*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0000 13 :*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0000 14 :*  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0000 15 :*  TRANSFERRED.
0000 16 :*
0000 17 :*  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000 18 :*  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0000 19 :*  CORPORATION.
0000 20 :*
0000 21 :*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 22 :*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 23 :*
0000 24 :*
0000 25 :*****
0000 26 :
0000 27 :
0000 28 :++
0000 29 :
0000 30 : Facility: RMS
0000 31 :
0000 32 : Abstract:
0000 33 :
0000 34 :     This module communicates with the File Access Listener (FAL) at the
0000 35 :     remote node to close the specified file.
0000 36 :
0000 37 : Environment: VAX/VMS, executive mode
0000 38 :
0000 39 : Author: James A. Krycka,      Creation Date: 09-DEC-1977
0000 40 :
0000 41 : Modified By:
0000 42 :
0000 43 :     V03-002 JAK0125          J A Krycka      07-SEP-1983
0000 44 :     When it is necessary to build an Access message to convey
0000 45 :     certain FOP options on close, construct the file specification
0000 46 :     from the FWA instead of the NAM block, as RMS now keeps the
0000 47 :     FWA around for the duration of the file access.
0000 48 :
0000 49 :--

```

```
0000 51      .SBTTL  DECLARATIONS
0000 52
0000 53      :
0000 54      : Include Files:
0000 55      :
0000 56
0000 57      $DAPPLGDEF      : Define DAP prologue symbols
0000 58      $DAPHDRDEF     : Define DAP message header
0000 59      $DAPCNFDEF     : Define DAP Configuration message
0000 60      $DAPATTDEF     : Define DAP Attributes message
0000 61      $DAPACCDEF     : Define DAP Access message
0000 62      $DAPCMPDEF     : Define DAP Access Complete message
0000 63      $IFBDEF        : Define IFAB symbols
0000 64      $NWADEF        : Define Network Work Area symbols
0000 65
0000 66      :
0000 67      : Macros:
0000 68      :
0000 69      :     None
0000 70      :
0000 71      : Equated Symbols:
0000 72      :
0000 73
0000 74      ASSUME  DAP$Q_DCODE_FLG EQ 0
0000 75      ASSUME  NWA$Q_FLG EQ 0
0000 76
0000 77      :
0000 78      : Own Storage:
0000 79      :
0000 80      :     None
0000 81      :
```

```

0000 83      .SBTTL  NT$CLOSE - PERFORM NETWORK CLOSE FUNCTION
0000 84
0000 85      :++
0000 86      : NT$CLOSE - engages in a DAP dialogue with the remote FAL to close the
0000 87      : specified file and to process selected FOP options and XABs.
0000 88
0000 89      : Calling Sequence:
0000 90
0000 91      :     BSBW  NT$CLOSE
0000 92
0000 93      : Input Parameters:
0000 94
0000 95      :     R8      FAB address
0000 96      :     R9      IFAB address
0000 97      :     R10     IFAB address
0000 98      :     R11     Impure Area address
0000 99
0000 100     : Implicit Inputs:
0000 101
0000 102     :     User PRO and RDT XABs
0000 103     :     DAP$L_CRC_RSLT
0000 104     :     DAP$V_DAPCRC
0000 105     :     DAP$V_FOPDLT, FOPSCF, FOPSP
0000 106     :     DAP$V_VAXVMS
0000 107     :     IFBSV_DLT, DMO, RWC, SCF, SPL
0000 108     :     IFBSL_FWA_PTR
0000 109     :     IFBSL_NWA_PTR
0000 110     :     NWA$V_FTM_EOF
0000 111     :     NWA$V_FTM_RETRV
0000 112
0000 113     : Output Parameters:
0000 114
0000 115     :     R0      Status code (RMS)
0000 116     :     R1-R7   Destroyed
0000 117     :     AP      Destroyed
0000 118
0000 119     : Implicit Outputs:
0000 120
0000 121     :     None
0000 122
0000 123     : Completion Codes:
0000 124
0000 125     :     Standard RMS completion codes
0000 126
0000 127     : Side Effects:
0000 128
0000 129     :     Optionally, a file may be deleted, executed, printed, submitted
0000 130     :     (executed then deleted), or spooled (printed then deleted) on close
0000 131     :     at the remote node. Note that there is a distinction between the DAP
0000 132     :     execute and submit functions. Furthermore, the DCL SUBMIT/REMOTE
0000 133     :     command really maps into the DAP execute function (i.e., the file is
0000 134     :     not deleted after the batch job completes). Also, the file's protection
0000 135     :     and revision information may be optionally altered on close.
0000 136
0000 137     :     If an RMSS_CRC error is reported by FAL, then a message will be sent
0000 138     :     to the DECnet Event Logger (EVL).
0000 139     :--
  
```

```

0000 141 NT$CLOSE:: ; Entry point
0000 142 $STPT NTCLOSE ;
57 3C A9 D0 0006 143 MOVL IFBSL_NWA_PTR(R9),R7 ; Get address of NWA (and DAP)
000A 144
000A 145 ;+
000A 146 ; If the file was opened for write access then XABs are input on close. If so
000A 147 ; build a mask (NWA$W_BUILD) that will determine which optional DAP messages
000A 148 ; to send to FAL to modify the attributes of the file on close.
000A 149 ; For $CLOSE, these are the TIM and PRO messages.
000A 150 ;-
000A 151
000A 152 BUILD_MASK: ; Build NWA$W_DISPLAY
69 30 E1 000A 153 BBC #IFBSV_WRTACC,(R9),- ; Ignore XABs if file was opened for
53 000D 154 SEND_CMP_CLOSE ; for read-only access
56 01 D0 000E 155 MOVL #1,R6 ; Signal this as a close operation
FFEC' 30 0011 156 BSBW NT$SCAN_XABCHN ; Scan user XAB chain and check FAL's
0014 157 ; capabilities; request mask put in R2
44 50 E9 0014 158 BLBC R0,EXIT ; Branch on failure to complete scan
52 0F AA 0017 159 BICW2 #<<DAP$M_DSP_ATT>!- ; Remove these messages from build mask
001A 160 <DAP$M_DSP_ALL>!- ; as their corresponding XABs are
001A 161 <DAP$M_DSP_KEY>!- ; not input to the close operation
001A 162 <DAP$M_DSP_SUM>!- ;
001A 163 0>,R2 ;
00D2 C7 52 B0 001A 164 MOVW R2,NWA$W_BUILD(R7) ; Save build mask
40 13 001F 165 BEQL SEND_CMP_CLOSE ; Branch if no pertinent XABs on chain
0021 166
0021 167 ;+
0021 168 ; Build and send DAP Access Complete (change-begin) message to partner.
0021 169 ;-
0021 170
0021 171 SEND_CMP_BEGIN: ; (required message to modify file)
50 07 D0 0021 172 MOVL #DAP$K_CMP_MSG,R0 ; Get message type value
FFD9' 30 0024 173 BSBW NT$BUI[D HEAD ; Construct message header
85 06 90 0027 174 MOVW #DAP$K_CHANGE_B,(R5)+ ; Store CTLFUNC field
FFD3' 30 002A 175 BSBW NT$BUI[D TAIL ; Finish building message
FFD0' 30 002D 176 BSBW NT$TRANSMIT ; Send Access Complete message to FAL
28 50 E9 0030 177 BLBC R0,EXIT ; Branch on failure
0033 178
0033 179 ;+
0033 180 ; Build and send DAP Date and Time message to partner from the Revision
0033 181 ; Date and Time XAB.
0033 182 ;-
0033 183
0033 184 SEND_TIM: ; (optional message)
00D2 04 E1 0033 185 BBC #DAP$V_DSP_TIM,- ; Branch if Date and Time message
C7 0E 0035 186 NWA$W_BUILD(R7),- ; should not be sent
0038 187 SEND_PRO ;
56 0114 C7 D0 0039 188 MOVL NWA$C_RDTXABADR(R7),R6 ; Get address of user RDTXAB
FFBF' 30 003E 189 BSBW NT$ENCODE_TIM_R ; Build message
FFBC' 30 0041 190 BSBW NT$TRANSMIT ; Send Date and Time message to FAL
14 50 E9 0044 191 BLBC R0,EXIT ; Branch on failure
0047 192
0047 193 ;+
0047 194 ; Build and send DAP Protection message to partner.
0047 195 ;-
0047 196
0047 197 SEND_PRO: ; (optional message)

```

```
00D2 05 E1 0047 198 BBC #DAP$V_DSP_PRO,- ; Branch if Protection message
      C7      0049 199      N$W$W_BUILD(R7),- ; should not be sent
      OF      004C 200      SEND_CMP_END ;
56 0110 C7 D0 004D 201 MOVL N$W$C_PROXABADR(R7),R6 ; Get address of user PROXAB
      FFAB' 30 0052 202 BSBW NT$ENCODE_PRO ; Build message
      FFAB' 30 0055 203 BSBW NT$TRANSMIT ; Send Protection message to FAL
      01 50 E8 0058 204 BLBS R0,SEND_CMP_END ; Branch on success
      05 005B 205 EXIT: RSB ; Exit with RMS code in R0
```



```

005C 207 :+
005C 208 : Build and send DAP Access Complete (change-end) message to partner if this is
005C 209 : a change of file attributes on close sequence.
005C 210 :
005C 211 : OR
005C 212 :
005C 213 : Build and send DAP Access Complete (close) message to partner if this is a
005C 214 : normal close operation.
005C 215 :
005C 216 : In either case, FOP options (DLT, SCF, SPL, ...) will be specified in this
005C 217 : message.
005C 218 :-
005C 219 :
005C 220 SEND_CMP END: ; (required message to modify file)
51 07 DO 005C 221 MOVL #DAP$K_CHANGE_E,R1 ; Get function code
03 11 005F 222 BRB SEND_CMP ; Join common code
0061 223 SEND_CMP CLOSE: ; (required message for normal close)
51 01 DO 0061 224 MOVL #DAP$K_CLOSE,R1 ; Get function code
0064 225 SEND_CMP: ; Common code
0064 226 $SETBIT #NWA$V_LAST MSG,(R7) ; Declare this last message to block
50 07 DO 0068 227 MOVL #DAP$K_CMP MSG,R0 ; Get message type value
FF92' 30 006B 228 BSBW NT$BUI[C_HEAD ; Construct message header
85 51 90 006E 229 MOVB R1,(R5)+ ; Store CTLFUNC field
0071 230 :
0071 231 :
0071 232 : Map user specified FOP options to be performed on close into the DAP FOP
0071 233 : field. The IFAB bookkeeping field contains those FOP options requested on
0071 234 : open/create combined (logically ORed) with those requested on close.
0071 235 :
0071 236 : In addition, the DLT, SCF, and SPL bits (treated as a set) will be mapped iff
0071 237 : partner supports all of the requested options; else ignored for now--they
0071 238 : will be re-examined after Access Complete messages have been exchanged for
0071 239 : potential alternate processing using a separate DAP access function.
0071 240 :
0071 241 :
51 04 A9 DO 0071 242 MOVL IFB$V_BKPBITS(R9),R1 ; Get IFAB bits
08 67 52 D4 0075 243 CLRL R2 ; Zero resultant FOP bits
34 E1 0077 244 BBC #DAP$V_VAXVMS,(R7),10$ ; Branch if partner is not VAX/VMS
007B 245 $MAPBIT <IFB$V_RWC-32>,DAP$V_RWC ; Map RWC bit
0083 246 : ##### $MAPBIT <IFB$V_DMO-32>,DAP$V_DMO ; Map DMO bit
0083 247 : Note: this is not implemented in RMS32
0083 248 :
0083 249 ASSUME IFB$V_SPL+1 EQ IFB$V_SCF
0083 250 ASSUME IFB$V_SCF+1 EQ IFB$V_DLT
0083 251 :
0083 252 ASSUME DAP$V_FOPSPL+1 EQ DAP$V_FOPSCF
0083 253 ASSUME DAP$V_FOPSCF+1 EQ DAP$V_FOPDLT
0083 254 :
56 51 03 09 EF 0083 255 10$: EXTZV #<IFB$V_SPL-32>,#3,R1,R6 ; Extract the three FOP bits
23 13 0088 256 BEQL 20$ ; Branch if none set
03 1D EF 008A 257 EXTZV #DAP$V_FOPSPL,#3,- ; Extract the three corresponding
50 28 A7 008D 258 DAP$Q_SYSCAP(R7),R0 ; SYSCAP bits
56 50 CA 0090 259 BICL2 R0,R6 ; Mask out supported requests
18 12 0093 260 BNEQ 20$ ; Branch if any are not supported
0095 261 $MAPBIT <IFB$V_DLT-32>,DAP$V_DLT ; Map DLT bit
009D 262 $MAPBIT <IFB$V_SCF-32>,DAP$V_SCF ; Map SCF bit
00A5 263 $MAPBIT <IFB$V_SPL-32>,DAP$V_SPL ; Map SPL bit

```

```

51 52 D0 00AD 264 20$: MOVL R2,R1 ; Move data to correct register
   FF4D' 30 00B0 265 BSBW NT$CVT_BN4_EXT ; Store FOP as an extensible field
       00B3 266
       00B3 267
       00B3 268 ; Include file level CRC checksum in message as required.
       00B3 269
       00B3 270
08 28 15 E1 00B3 271 BBC #DAP$V_DAPCRC,- ; Branch if partner does not support
04 67 A7 00B5 272 DAP$Q_SYSCAP(R7),30$ ; file level CRC checksum
85 20 A7 00B8 273 BBS #NWA$V_FTM_RETRV,(R7),30$ ; Branch if file transfer retrieval mode
   FF3D' 1A E0 00B8 273 BBS #NWA$V_FTM_RETRV,(R7),30$ ; has not been properly terminated
   FF3A' 30 00BC 274 JOBC ; Store CRC checksum field (CHECK)
   OC 50 B0 00BC 275 30$: MOVW DAP$L_CRC_RSLT(R7),(R5)+ ; Finish building message
       30 00C0 276 BSBW NT$BUILD_TAIL ; Send Access Complete message to FAL
       30 00C3 277 BSBW NT$TRANSMIT ; Branch on failure
       00C6 278 BLBC R0,EXIT1
       00C9 279
       00C9 280 ;+
       00C9 281 ; Receive Access Complete message from partner (which may be preceded by other
       00C9 282 ; DAP messages in the pipe if we've prematurely terminated the access).
       00C9 283 ;-
       00C9 284
       00C9 285 RECV_CMP:
07 50 30 00C9 286 BSBW NT$LOOK_FOR_CMP ; Wait for response from FAL
   56 E9 00CC 287 BLBC R0,CHKCRC ; Branch on failure
   02 D5 00CF 288 TSTL R6 ; Branch if there are no more FOP
   31 13 00D1 289 BEQL EXIT1 ; options to process
       10 00D3 290 BSBB REEXAMINE_FOP ; Try to process them another way
       05 00D5 291 EXIT1: RSB ; Exit with RMS cc e in R0
       00D6 292
       00D6 293 ;
       00D6 294 ; Special case DAP level CRC checksum error reported by FAL.
       00D6 295 ;
       00D6 296
0000'8F 50 B1 00D6 297 CHKCRC: CMPW R0,#<RMS$_CRC&^XFFFF> ; Check for RMS$_CRC error from FAL
       02 12 00DB 298 BNEQ 10$ ;
       01 10 00DD 299 BSBB CRC_ERROR ; Process DAP level CRC checksum error
       05 00DF 300 10$: RSB ; Exit with RMS code in R0

```

```

00E0 302      .SBTTL CHECK_CRC_ERROR
00E0 303
00E0 304      :++
00E0 305      : This routine processes an RMSS_CRC error returned by FAL on a close operation.
00E0 306      : First, a DAP level CRC checksum error message is formatted and sent to the
00E0 307      : DECnet Event Logger. Then another Access Complete message is generated to
00E0 308      : direct FAL to close the file.
00E0 309      :--
00E0 310
00E0 311 CRC_ERROR:      ; Entry point
01  BB 00E0 312      PUSH  #^M<R0>      ; Save completion code on entry
FF1B' 30 00E2 313      BSBW  NT$CRC_LOGERR    ; Send message to DECnet Event Logger
00E5 314      ; No status code is returned
00E5 315
00E5 316      :+
00E5 317      : Build and send Access Complete message to close the file.
00E5 318      :--
00E5 319
00E5 320 CRC_SEND CMP:      ;
00E5 321      $SETBIT #N.'ASV_LAST MSG,(R7) ; Declare this last message to block
50  07  D0 00E9 322      MOVL  #DAP$K_CMP MSG,R0    ; Get message type value
FF11' 30 00EC 323      BSBW  NT$BUI[CD HEAD    ; Construct message header
85  01  90 00EF 324      MOV  #DAP$K_CLOSE,(R5)+ ; Store CTLFUNC field
FF0B' 30 00F2 325      BSBW  NT$BUI[CD TAIL    ; Finish building message
FF0B' 30 00F5 326      BSBW  NT$TRANSMIT    ; Send Access Complete message to FAL
08 50  E9 00F8 327      BLBC  R0,CRC_EXIT      ; Branch on failure
00FB 328
00FB 329      :+
00FB 330      : Receive Access Complete message from partner.
00FB 331      :--
00FB 332
00FB 333 CRC_RECV CMP:      ;
00FB 334      $SETBIT #DAP$K_CMP_MSG,DAP$L_MSG;MASK(R7) ;
0100 335      ; Expect response of Access Complete msg
FEFD' 30 0100 336      BSBW  NT$RECEIVE    ; Get reply from FAL
0103 337 CRC_EXIT:      ;
01  BA 0103 338      POPR  #^M<R0>      ; Restore completion code on entry
05  05 0105 339      RSB      ; Exit with RMSS_CRC code in R0

```

```

0106 341 .SBTTL REEXAMINE_FOP
0106 342
0106 343 :++
0106 344 : This routine attempts to process selected FOP options via a separate DAP
0106 345 : access function (which have not been processed because the remote FAL does not
0106 346 : support passing these options in the DAP FOP field in the Access Complete
0106 347 : message).
0106 348 :--
0106 349
0106 350 REEXAMINE_FOP: ; Entry point
0106 351
0106 352 ASSUME IFBSV_SPL+1 EQ IFBSV_SCF
0106 353 ASSUME IFBSV_SCF+1 EQ IFBSV_DLT
0106 354
50 69 03 29 EF 0106 355 EXTZV #IFBSV_SPL,#3,(R9),R0 ; Extract the three FOP bits
0108 356 $CASEB SELECTOR=R0- ; Options requested:
0108 357 DISPL=<- ; Note: SCF takes precedence over SPL
0108 358 NOTHING- ; 0 | 0 | 0
0108 359 ERRSUP- ; 0 | 0 | SPL
0108 360 EXECUTE- ; 0 | SCF | 0
0108 361 EXECUTE- ; 0 | SCF | SPL ==> SCF
0108 362 DELETE- ; DLT | 0 | 0
0108 363 ERRSUP- ; DLT | 0 | SPL
0108 364 SUBMIT- ; DLT | SCF | 0
0108 365 SUBMIT- ; DLT | SCF | SPL ==> SCF ! DLT
0108 366 >
011F 367 NOTHING:RMSSUC ; Return success
0122 368 RSB ; Exit with RMS code in R0
FEDA' 05 0122 368 RSB ; Exit with RMS code in R0
31 0123 369 ERRSUP: BRW NTSRMT_FOP2 ; Declare RMSS$ SUPPORT error and
0126 370 ; exit with RMS code in R0
FB 11 0126 371 SUBMIT: BRB ERRSUP ; It's too late to perform DAP submit
0128 372 ; function--logically it's similar to
0128 373 ; create function
56 04 90 0128 374 DELETE: MOVB #DAP$K_ERASE,R6 ; Save DAP function code for erase
03 11 0128 375 BRB REEX_SEND_ACC ; Delete the file
56 08 90 0128 376 EXECUTE:MOVB #DAP$K_EXECUTE,R6 ; Save DAP function code for execute
0130 377
0130 378 :+
0130 379 ; Build and send Access message to partner.
0130 380 :-
0130 381
0130 382 REEX_SEND_ACC:
0130 383 $SETBIT #NWSV_LAST_MSG,(R7) ; Declare this last message to block
50 03 D0 0134 384 MOVL #DAP$K_ACC_MSG,R0 ; Get message type value
FEC6' 30 0137 385 BSBW NTSBUID_HEAD ; Construct message header
85 56 90 013A 386 MOVB R6,(R5)+ ; Store ACCFUNC field
85 01 90 013D 387 MOVB #DAP$M_NONFATAL,(R5)+ ; Store ACCOPT field
5A 38 A9 D0 0140 388 MOVL IFBSL_FWA_PTR(R9),R10 ; Get address of FWA (no need to save
0144 389 ; R10 as it was equal to R9 on entry)
FEB9' 30 0144 390 BSBW NTSGET_FILESPEC ; Store FILESPEC as a counted
0147 391 ; ASCII string
5A 59 D0 0147 392 MOVL R9,R10 ; Restore IFAB address to register
FEB3' 30 014A 393 BSBW NTSBUILD_TAIL ; Finish building message
FEB0' 30 014D 394 BSBW NTS$TRANSMIT ; Send Access message to FAL
08 50 E9 0150 395 BLBC R0,EXIT2 ; Branch on failure
0153 396
0153 397 :+

```

```
0153 398 ; Receive Access Complete message from partner.  
0153 399 :-  
0153 400  
0153 401 REEX_RECV_CMP:  
0153 402 $SETBIT #DAP$K_CMP_MSG,DAP$L_MSG_MASK(R7)  
0158 403 ; Expect response of Access Complete msg  
FEA5' 30 0158 404 BSBW NTSRECEIVE ; Get reply from FAL  
05 015B 405 EXIT2: RSB ; Exit with RMS code in R0  
015C 406  
015C 407 .END ; End of module
```

NTOCLOSE
Symbol table

NETWORK CLOSE FILE

D 12

15-SEP-1984 23:50:53 VAX/VMS Macro V04-00
5-SEP-1984 16:20:19 [RMS.SRC]NTOCLOSE.MAR;1

Page 11
(7)

NT
VO

\$\$PSECT_EP
 \$\$COUNT
 \$\$RMSTEST
 \$\$RMS_PBUGCHK
 \$\$RMS_TBUGCHK
 \$\$RMS_UMODE
 BUILD_MASK
 CHKCR
 CRC_ERROR
 CRC_EXIT
 CRC_RECV_CMP
 CRC_SEND_CMP
 DAPSB_ACCFUNC
 DAPSB_ACCOPT
 DAPSB_BITCNT
 DAPSB_BKS
 DAPSB_BSZ
 DAPSB_CMPFUNC
 DAPSB_DATATYPE
 DAPSB_DCODE_FID
 DAPSB_DCODE_MAC
 DAPSB_DCODE_MSG
 DAPSB_DECVAR
 DAPSB_ECONUM
 DAPSB_FAC
 DAPSB_FILESYS
 DAPSB_FLAGS
 DAPSB_FSZ
 DAPSB_LEN256
 DAPSB_LENGTH
 DAPSB_ORG
 DAPSB_OSTYPE
 DAPSB_RAT
 DAPSB_RFM
 DAPSB_SHR
 DAPSB_STREAMID
 DAPSB_TYPE
 DAPSB_USRNUM
 DAPSB_USRVER
 DAPSB_VERNUM
 DAPSB_X_FIELD
 DAPSK_BLN
 DAPSK_ACC_MSG
 DAPSK_BLN
 DAPSK_CHANGE_B
 DAPSK_CHANGE_E
 DAPSK_CLOSE
 DAPSK_CMP_MSG
 DAPSK_ERASE
 DAPSK_EXECUTE
 DAPSK_FIX
 DAPSK_SEQ
 DAPSL_ALQ1
 DAPSL_ATTMENU
 DAPSL_CMWA
 DAPSL_CRC_RSLT
 DAPSL_DCODE_STS

= 00000000
 = 00000008
 = 0000001A
 = 00000010
 = 00000008
 = 00000004
 0000000A R 01
 00000006 R R 01
 000000E0 R R 01
 00000103 R R 01
 000000FB R R 01
 000000E5 R 01
 00000040
 00000041
 00000035
 00000050
 00000052
 00000040
 00000044
 00000019
 0000001B
 0000001A
 00000047
 00000045
 00000042
 00000043
 00000031
 00000051
 00000034
 00000033
 00000045
 00000042
 00000047
 00000046
 00000043
 00000032
 00000030
 00000046
 00000048
 00000044
 00000024
 000000C0
 = 00000003
 000000C0
 = 00000006
 = 00000007
 = 00000001
 = 00000007
 = 00000004
 = 00000008
 = 00000001
 = 00000000
 0000004C
 00000040
 00000030
 00000020
 00000018

DAPSL_DEV 0000006P
 DAPSL_EBK 00000078
 DAPSL_FOP1 00000064
 DAPSL_FOP2 00000044
 DAPSL_HBK 00000074
 DAPSL_MRN 00000058
 DAPSL_MSG_MASK 0000001C
 DAPSL_SBN 0000007C
 DAPSL_SSPWA 00000080
 DAPSL_TEMP 00000090
 DAPSM_BITCNT = 00000008
 DAPSM_CMPFMT = 00000008
 DAPSM_DMO = 00002000
 DAPSM_DSP_3NAM = 00000200
 DAPSM_DSP_ALL = 00000004
 DAPSM_DSP_ATT = 00000001
 DAPSM_DSP_KEY = 00000002
 DAPSM_DSP_SUM = 00000008
 DAPSM_EMBEDDED = 00000010
 DAPSM_GET = 00000002
 DAPSM_GO_NOGO = 00000010
 DAPSM_IMAGE = 00000002
 DAPSM_LSA = 00000040
 DAPSM_MACY11 = 00000080
 DAPSM_MSE = 00000010
 DAPSM_NONFATAL = 00000001
 DAPSM_SEGMENT = 00000040
 DAPSM_TMP1\$ = 000000C0
 DAPSM_TMP2\$ = 0000FC00
 DAPSM_TMP3\$ = 00020000
 DAPSM_TMP4\$ = 01000000
 DAPSM_TMP5\$ = F0000000
 DAPSM_ZERO = 00000080
 DAPSQ_DCODE_FLG 00000000
 DAPSQ_FILESPEC 00000044
 DAPSQ_MSG_BUF1 00000008
 DAPSQ_MSG_BUF2 00000010
 DAPSQ_PASSWORD 00000050
 DAPSQ_RUNSYS 0000005C
 DAPSQ_SYSCAP 00000028
 DAPSQ_SYSPEC 00000038
 DAPSV_DAPCRC = 00000015
 DAPSV_DLT = 00000016
 DAPSV_DSP_PRO = 00000005
 DAPSV_DSP_TIM = 00000004
 DAPSV_FOPDLT = 0000001F
 DAPSV_FOPSCF = 0000001E
 DAPSV_FOPSPL = 0000001D
 DAPSV_RWC = 00000001
 DAPSV_SCF = 00000015
 DAPSV_SPL = 00000014
 DAPSV_VAX_HS = 00000034
 DAPSW_BLS 00000048
 DAPSW_BUFSIZ 00000040
 DAPSW_CHECK 00000042
 DAPSW_DEQ1 00000054
 DAPSW_DISPLAY1 0000004C

NTOCLOSE
Symbol table

NETWORK CLOSE FILE

E 12

15-SEP-1984 23:50:53 VAX/VMS Macro V04-00
5-SEP-1984 16:20:19 [RMS.SRC]NTOCLOSE.MAR;1

Page 12
(7)

DAPSW_FFB	00000072			NWASL_XLTBUFFLG	0000022C		
CAPSW_LRL	00000070			NWASL_XLTCNT	00000228		
DAPSW_MRS	0000004A			NWASL_XLTMAXINDX	00000234		
DAPSW_PARTNER	00000006			NWASL_XLTSIZ	00000230		
DAPSW_VERSION	00000004			NWASQ_ACS	00000244		
DELETE	00000128	R	01	NWASQ_BIGBUF	00000170		
ERRSUP	00000123	R	01	NWASQ_BLD	000000F0		
EXECUTE	0000012D	R	01	NWASQ_FLG	00000000		
EXIT	0000005B	R	01	NWASQ_INODE	0000025C		
EXIT1	000000D5	R	01	NWASQ_IOSB	000000D8		
EXIT2	0000015B	R	01	NWASQ_LNODE	00000160		
IFBSL_BKPBITS	= 00000004			NWASQ_LOGNAME	0000023C		
IFBSL_FWA_PTR	= 00000038			NWASQ_NCB	00000264		
IFBSL_NWA_PTR	= 0000003C			NWASQ_RCV	000000E0		
IFBSV_DLT	= 0000002B			NWASQ_SAVE_DESC	00000120		
IFBSV_RWC	= 00000027			NWASQ_XLTBUF1	0000024C		
IFBSV_SCF	= 0000002A			NWASQ_XLTBUF2	00000254		
IFBSV_SPL	= 00000029			NWASQ_XMT	000000E8		
IFBSV_WRTACC	= 00000030			NWAST_ACSBUF	0000026C		
NOTHING	0000011F	R	01	NWAST_AUXBUF	000005E0		
NT\$BUILD_HEAD	*****	X	01	NWAST_DAP	00000000		
NT\$BUILD_TAIL	*****	X	01	NWAST_INODEBUF	000004AC		
NT\$CLOSE	00000000	RG	01	NWAST_ITM_ATTR	00000200		
NT\$CRC_LOGERR	*****	X	01	NWAST_ITM_END	00000224		
NT\$CVT_BN4_EXT	*****	X	01	NWAST_ITM_LST	00000200		
NT\$ENCODE_PRO	*****	X	01	NWAST_ITM_MAXINDX	00000218		
NT\$ENCODE_TIM R	*****	X	01	NWAST_ITM_STRING	0000020C		
NT\$GET_FICESPEC	*****	X	01	NWAST_NCBBUF	0000052C		
NT\$LOOR_FOR_CMP	*****	X	01	NWAST_NODEBUF	00000169		
NT\$RECEIVE	*****	X	01	NWAST_RCVBUF	000001A0		
NT\$RMT_FOP2	*****	X	01	NWAST_SCAN	00000100		
NT\$SCAN_XABCHN	*****	X	01	NWAST_TEMP	00000120		
NT\$TRANSMIT	*****	X	01	NWAST_XLTBUF1	000002AC		
NWASB_ALLXABCNT	0000011C			NWAST_XLTBUF2	000003AC		
NWASB_DAP_RAC	000000C9			NWAST_XMTBUF	000003C0		
NWASB_FILESYS	000000C5			NWASV_FTM_RETRV	= 0000001A		
NWASB_KEYXABCNT	0000011D			NWASV_LAST_MSG	= 00000000		
NWASB_NETSTRSIZ	0000016F			NWASW_BUILD	000000D2		
NWASB_NODBUFSIZ	00000168			NWASW_DAPBUFSIZ	000000CA		
NWASB_ORG	000000C6			NWASW_DIR_OFF	000000CC		
NWASB_OSTYPE	000000C4			NWASW_DISPLAY	000000D0		
NWASB_RFM	000000C7			NWASW_FIL_OFF	000000CE		
NWASB_RMS_RAC	000000C8			NWASW_JNLXABJOP	0000011E		
NWASC_BLN	00000800			PIOSA_TRACE	*****	X	01
NWASK_BLN	00000800			RECV_CMP	000000C9	R	01
NWASL_ALLXABADR	00000100			REEXAMINE_FOP	00000106	R	01
NWASL_DATXABADR	00000104			REEX_RECV_CMP	00000153	R	01
NWASL_DEV	000000C0			REEX_SEND_ACC	00000130	R	01
NWASL_FHCXABADR	00000108			RMS\$CRC	*****	X	01
NWASL_KEYXABADR	0000010C			SEND_CMP	00000064	R	01
NWASL_MSG_MASK	000000D4			SEND_CMP_BEGIN	00000021	R	01
NWASL_PROXABADR	00000110			SEND_CMP_CLOSE	00000061	R	01
NWASL_RDXABADR	00000114			SEND_CMP_END	0000005C	R	01
NWASL_SAVE_FLGS	00000128			SEND_PRO	00000047	R	01
NWASL_SUMXABADR	00000118			SEND_TIM	00000033	R	01
NWASL_THREAD	000000FC			SUBMIT	00000126	R	01
NWASL_XLTATTR	00000238			TPT\$L_NTCLOSE	*****	X	01

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes
. ABS	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
NFS\$NETWORK	0000015C (348.)	01 (1.)	PIC USR CON REL GBL NOSHR EXE RD NOWRT NOVEC BYTE
\$ABSS	00000800 (2048.)	02 (2.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	32	00:00:00.09	00:00:00.50
Command processing	123	00:00:00.60	00:00:03.00
Pass 1	273	00:00:09.60	00:00:22.79
Symbol table sort	0	00:00:01.17	00:00:01.84
Pass 2	88	00:00:01.82	00:00:05.00
Symbol table output	28	00:00:00.24	00:00:01.74
Psect synopsis output	2	00:00:00.00	00:00:00.08
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	548	00:00:13.52	00:00:34.99

The working set limit was 1350 pages.
47867 bytes (94 pages) of virtual memory were used to buffer the intermediate code.
There were 50 pages of symbol table space allocated to hold 802 non-local and 14 local symbols.
407 source lines were read in Pass 1, producing 14 object records in Pass 2.
24 pages of virtual memory were used to define 23 macros.

! Macro library statistics !

Macro library name	Macros defined
-\$255\$DUA28:[RMS.OBJ]RMS.MLB;1	15
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	4
TOTALS (all libraries)	19

1066 GETS were required to define 19 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:NTOCLOSE/OBJ=OBJ\$:NTOCLOSE MSRC\$:NTOCLOSE/UPDATE=(ENH\$:NTOCLOSE)+LIB\$:RMS/LIB

